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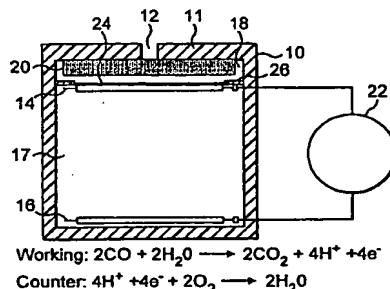
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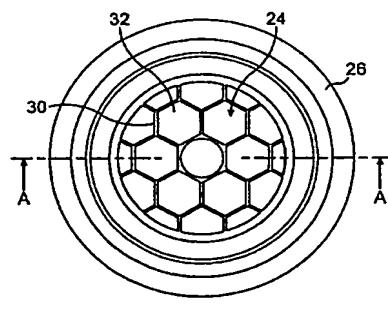
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[Continued on next page]

(54) Title: LIQUID ELECTROLYTE GAS SENSOR COMPRISING RIGID POROUS ELECTRODE SUPPORT



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(57) Abstract: An electrochemical gas sensor is disclosed comprising: a working electrode (14) comprising a gas porous membrane and a catalyst layer formed on one side of the membrane; a counter electrode (16) comprising a catalyst; electrolyte (17) in contact with the catalyst both of the working electrode and of the counter electrode; and a support (24) that is in contact with, and presses down on, the side of the working electrode remote from the electrolyte and that compresses the electrodes and the electrolyte together. The support has a thickness of not greater than 0.5mm and includes open areas allowing gas to contact the membrane. The bars (30) between the open areas (32) of the support constitute less than 40% of the support, including the open areas. The support allows for a greater response speed and provides greater efficiency of catalyst usage. By making the support bars thin, the amount of electrode catalyst occluded by the support is reduced.

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